Maven Commands List

Cleaning & Building

```
mvn clean  # Deletes the target/ directory and compiled files
mvn package  # Compiles, tests, and packages the project (JAR/WAR)
mvn install  # Compiles, tests, and installs the artifact in the local repo
mvn clean install  # Cleans and then installs the project
mvn clean install -U  # Cleans, installs, and forces dependency updates
mvn clean package  # Cleans and then packages the project
mvn clean deploy  # Cleans, builds, and deploys the artifact to a remote repository
```

Compilation & Execution

Testing & Verification

```
mvn test  # Runs unit tests
mvn verify  # Runs integration tests and checks build validity
mvn clean verify  # Cleans and then verifies the build
```

Dependency Management

```
mvn dependency:tree  # Displays project dependencies in a tree format
mvn dependency:resolve  # Resolves and downloads dependencies
mvn dependency:analyze  # Analyzes unused and declared dependencies
mvn versions:display-dependency-updates  # Shows available dependency updates
```

Project Information & Debugging

```
mvn help:effective-pom  # Displays the effective POM after applying inheritance
mvn help:effective-settings  # Shows the effective Maven settings.xml configuration
mvn validate  # Validates the project structure and POM
```

Plugin & Profile Management

```
mvn help:describe -Dplugin=plugin-name  # Describes details about a plugin
mvn help:active-profiles  # Lists active Maven profiles
mvn -Pprofile-name clean install  # Runs Maven with a specific profile
```

Skipping Tests

```
mvn clean install -DskipTests # Skips test execution but compiles them
mvn clean install -Dmaven.test.skip=true # Skips compiling and running tests
```

Forcing Updates & Offline Mode

```
mvn clean install -U  # Forces dependency updates from remote repositories
mvn clean package -o  # Runs Maven in offline mode
```

Would you like me to add more advanced commands? ${\tt M}$